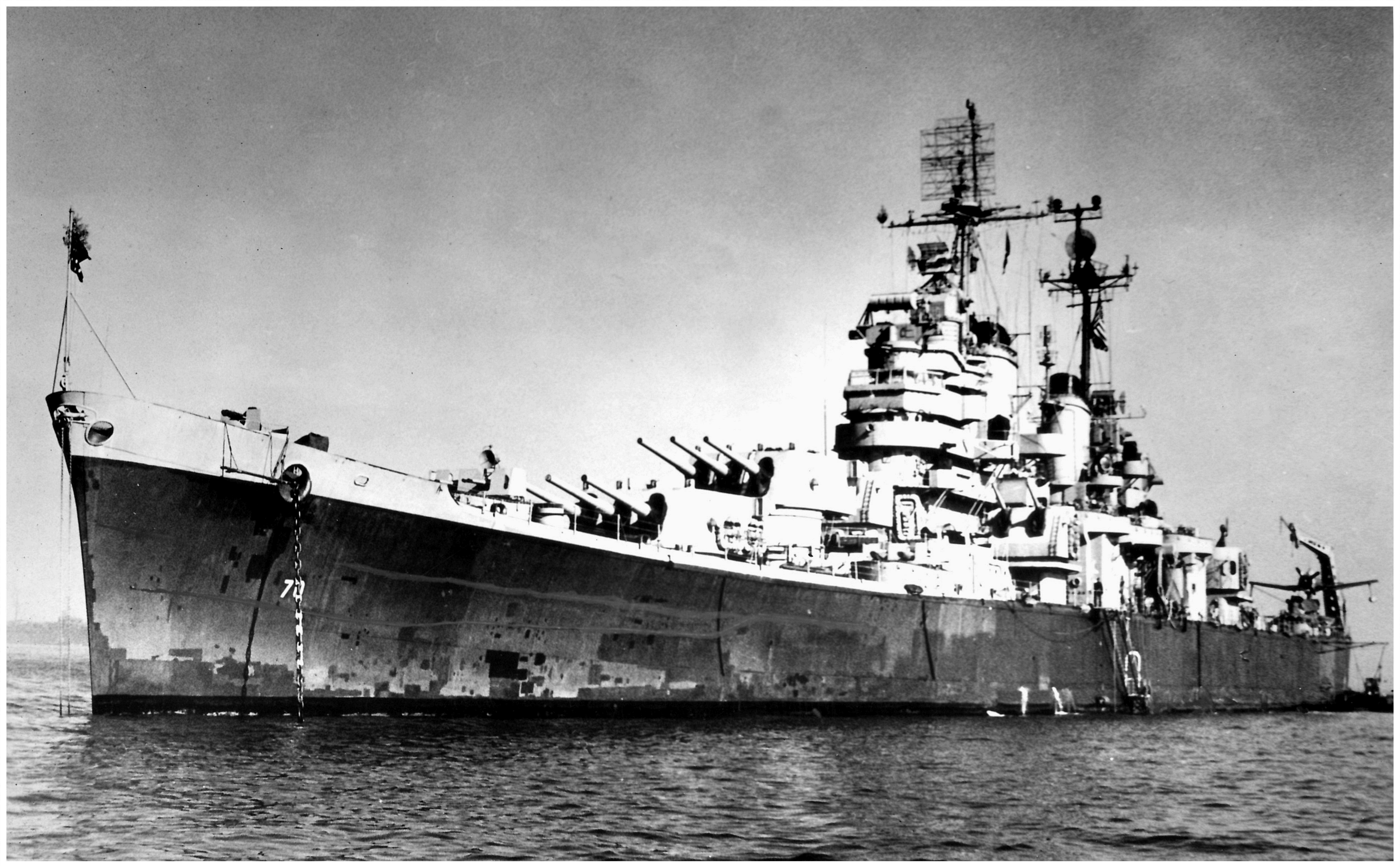
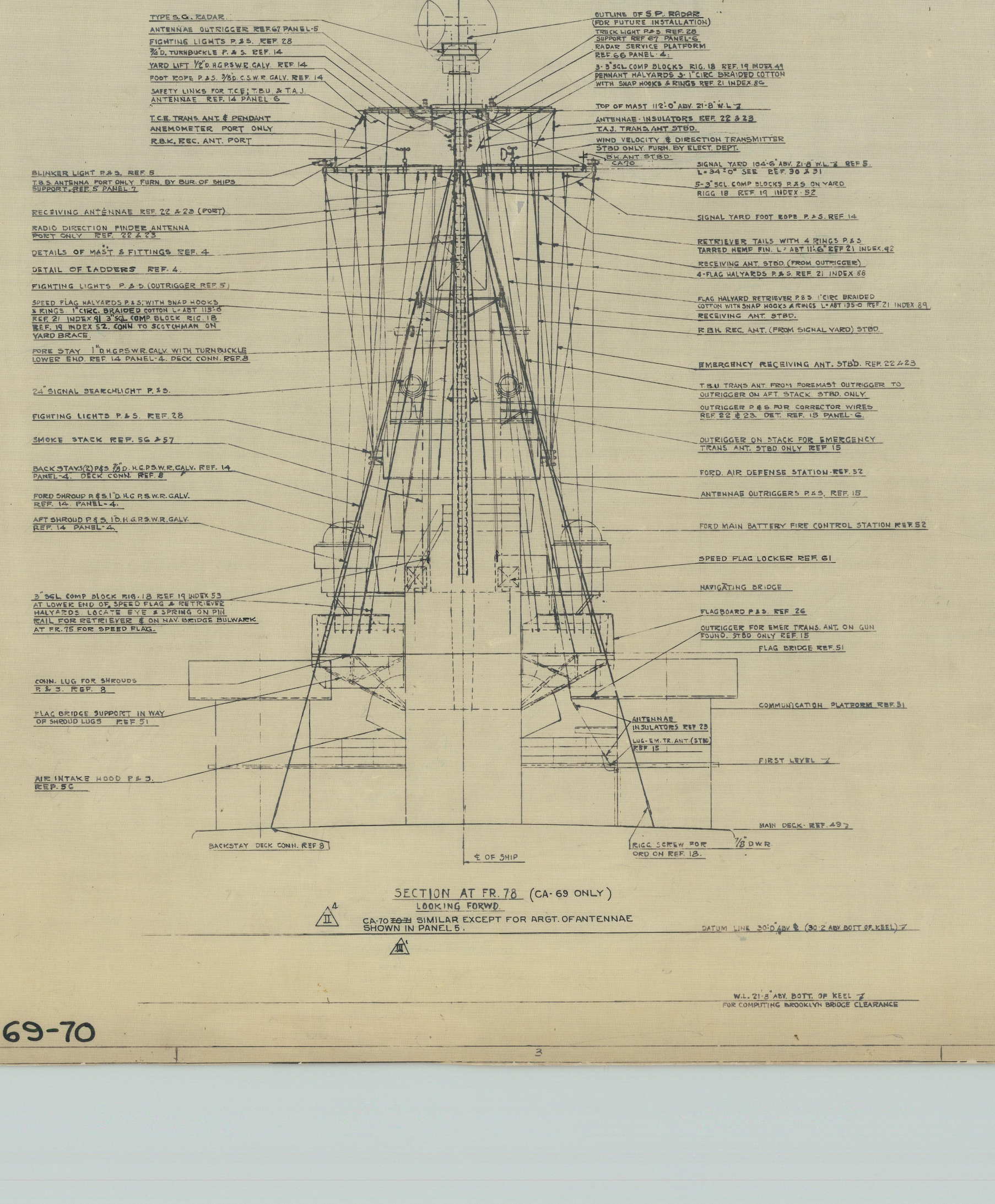
CA69-70



PLAN VIEW
ENSIGN GAFF
SIGNAL YARD
ANTENNA OUTRIGGER
TBK TRANS. ANT.
ANT. TRUNKS P&S REF. 47
12" OUTRIGGERS REF. 15 PANEL #2
WHIP ANT.
TAJ LEAD IN
TBA TRANS ANT. STBD.
AIR INTAKE
EMERGENCY ANT.
TBU
TAJ
S.G. RADAR
SIGNAL YARD - 4"D. STD. PIPE L = 21'-0" SPACE HALYARD BLOCKS 3'-5" O.C. FROM END OF YARD. REF. 66
ENSIGN GAFF 3"D. STD. PIPE ON ℄ OF SHIP EXTEND ABT. 4'-0" BEYOND EDGE OF PLATFORM - CANTILEVER FROM BKT. ON ℄ REF. 66
#7 ENSIGN
ANT. OUTRIGGER
TBA. ANT. STBD. TBM. & TBK. ANT. PORT
TCE TRANS. ANT
TAJ TRANS
TRANS. ANT. TAJ & TCE
EMERGENCY TRANS.
FLAGBD. LOCKER
WHIP ANT.
TBA - LEAD IN
FORCED DRAFT INTAKE REF. 26.
LUG ON MAST REF #5 PANEL #2
CRANE ARGT. REF. 32
#4 JACK
FORD ANCHOR LIGHT 52'-6" ABV 21'-8" W.L.
STEERING LIGHT 48'-3¾" ABV.
JACK STAFF - DETAILS REF. 9
2 - HALYARDS - 1" CIRC BRAIDED COTTON WITH SNAP HOOKS & RINGS L. ABT. ORD. ON REF. 9 & 21 - INDEX - 139
20 M/M. GUN P & S
40 M/M. DIRECTOR
BUCKET VENT
LINE OF CHAIN WHEN TOWED
MAIN DK. AT FORE PEAK 51'-6" ABV.

ARRGT. AT MAINMAST SHOWING ADDITION OF SIGNAL YARD CA 70-~~71~~ ONLY

ARRANGEMENT OF ANTENNAE AT FOREMAST FOR FLAG CLEARANCE CA-70-~~71~~ ONLY


CLEARANCE LINE 126'-0" ABV. 21'-8" W.L.
S.G. RADAR
OUTLINE OF S.P. RADAR (FOR FUTURE INSTALLATION)
TRUCK LIGHT P&S. REF. 28
SUPPORT REF. 67 PANEL-6
RADAR SERVICE PLATFORM REF. 66 PANEL 4.
3 - 3" SGL COMP BLOCKS RIG. 18 REF. 19 INDEX 49
PENNANT HALYARDS 3 - 1" CIRC BRAIDED COTTON WITH SNAP HOOKS & RINGS REF. 21 INDEX 86
TOP OF MAST 112'-0" ABV. 21'-8" W.L.
ANTENNAE - INSULATORS REF. 22 & 23

REFERENCES - CONT.

NO	TITLE	B.S. Co. No	S OF S. NO	BUR. OF SHIPS No
56	FORD. SMOKE STACK. MAIN DK TO NAV. BRIDGE	94127-30	4259	410601
57	" " " ABV. NAV. BRIDGE - PLAT. & SHIELD FOR 36" S.L.	94127-31	4260	410602
58	AFT. SMOKE STACK - OUTER CASING BET. DK. & S.L. PLATFORM	94127-46-1	4130-A	410644
59	" " " " " ABV. S.L. PLATFORM.	94127-47-1	4131-A	410643
60	SIDE LADDER ARRGT	94232-107	4309	410649
61	SPEED FLAG LOCKER	94232-105	4316	410655
62	SIGNAL BOOK DESK (MAINMAST) DR. 3001-255	SCH. 94236-255		
63	SUPPORT FOR SHIPS BELL	94235-6	3876	—
64	NAME ON SHIPS BELL	94235-7	3680	408922
65	SHIPS NAME. DRAFT MKS. & BOOT TOPPING	94232-175	3428	
66	MAINMAST RADAR PLATFORM & ANTENNA OUTRIGGERS	95211-30	5177	411496
67	FOREMAST " " " " "	94211-24	4574	410924
68	BU. OF SHIPS LETTER C-CA 68-75/S18(3633) 6-AUG.-42 TO SUPERVISOR OF SHIPBUILDING U.S.N., QUINCY, MASS. THIS MODIFICATION IS CONSIDERED TO CONSTITUTE A PART OF MAINMAST SERVICING PLATFORM - CHANGE NO. W-4-(3) ISSUED IN BU. OF SHIPS CONF. C-CA 68-75/S17(3633) C-CA/S67/36 OF 10/4/41			
69	26'-0" MOTOR WHALEBOAT HANDLING ARRGT P. & S.	94233-8	4531	
70	ALTERATION TO FORCED DRAFT INTAKE AFTER STACK.	1496-UD-E	—	—

CHANGE No. W-4-(3)

S. OF S. LETTER CA68-75/S67 (F887-DH) APRIL 12-43. AUTHORITY FOR SHORTENING MAINMAST.

RESERVATION

~~1. PENNANT GAFF & FLAG STAFF RESERVED.~~

AREA - 27" × 154" = 28.9 SQ. FT.

GENERAL NOTES.

1. ONE INSULATOR SHALL BE LOCATED NEAR TOP OF EACH MEMBER OF STANDING RIGGING. THE LOWER END OF ALL STAND. RIGGING SHALL BE GROUNDED WITH #30 (80.000 CIRC. MILLS) .202 DIA. 19 STRANDS, BARE COPPER WIRE. WIRE & TERMINALS SHALL BE FURNISHED AND INSTALLED BY ELECT'L. DEPT.
2. LOOPS AROUND INSULATORS ON STAND. RIGGING SHALL BE OF SUFFICIENT LENGTH TO ALLOW FOR REPLACING INSULATOR IN CASE OF BREAKAGE. REF. 14.
3. RIGGING LOOPS AROUND THE INSULATORS SHALL BE THOROUGHLY PAINTED (PREFERABLY DIPPED) BEFORE INSTALLATION WITH ZINC CROMATE FORMULA #84 TO PREVENT CORROSION, AFTER ALLOWING TO DRY, PAINT WITH HAZE GREY #54. THE INSULATORS SHALL BE WIPED CLEAN AND MUST NOT BE PAINTED OR COATED IN ANY WAY.
4. NO PARCELLING, SEIZING OR TAR SHOULD BE USED ON RIGGING WHERE IT BEARS AGAINST INSULATORS.
5. IRON WIRE SEIZING SHALL BE EMPLOYED OVER SPLICES TO SECURE INSULATORS IN RIGGING. FOR METHOD OF INSTALLING INSULATORS FOR ANTENNAE SEE REF. 23.
6. ALL WIRE ROPE WHERE SPLICED TO BE WORMED, PARCELLED & SERVED IN ACCORDANCE WITH GENERAL SPECIFICATIONS SECT. Y-13.
7. WIRE ROPE FOR STANDING RIGGING SHALL BE 6×19 HIGH GRADE PLOW STEEL GALV. AT FOREMAST & 6×19 C.R.S. AT MAINMAST. FOOT & BACK ROPES SHALL BE 6×12 CAST STEEL GALV. PARCELLED & DBL. SERVED.
8. RIGG. DEPT. SHALL CHECK FITTINGS OF SHROUDS & STAYS ETC. WITH LUGS ON MASTS, BEFORE MASTS ARE STEPPED.
9. LENGTHS OF ALL STAND. & RUNNING RIGGING SHALL BE CHECKED FROM WORK.
10. ALL HALYARDS FOR JACK & ENSIGN STAFFS, PENNANTS, BATTLE FLAG, SIGNAL FLAGS & ANCHOR BALLS SHALL BE FURNISHED BY THE GOVT. INCLUDING SNAP HOOKS & RINGS. & SHALL BE INSTALLED BY CONTRACTOR. LIST ON REF. 21
11. ALL WOOD & METAL BLOCKS SHALL BE FURNISHED BY THE GOVT. & LISTED ON REF. 19.
12. ALL LIGHTS SHALL BE FURNISHED & INSTALLED BY ELECT. DEPT. SUPPORTS BY HULL DEPT.
13. BLINKER, MASTHEAD, RANGE & TRUCK LIGHTS. SHALL BE SCREENED SO THAT LIGHT DOES NOT SHOW DOWN ON SHIPS DECK.
14. PADS, OUTRIGGERS AND FITTINGS SHALL BE GALVANIZED. GALVANIZING SHALL BE DONE AFTER ASSEMBLY WHERE POSSIBLE.
15. ANGLE OF DECK PADS FOR RIGGING CONNS. SHALL BE CHECKED FROM WORK BY RIGGING DEPT. BEFORE WELDING.
16. WHERE STEEL IS PLACED AGAINST ALUMINUM BOTH FAYING SURFACES SHALL BE COATED WITH ZINC-CHROMATE PRIMER, FORMULA #84 & IN ACCORDANCE WITH REF. 43
17. ALL RIGGING SCREWS SHALL BE TESTED TO 1½ TIMES THE MAX. SAFE WORKING LOAD OF WIRE ROPE (U.S.N. SPEC.S. 22-R-3) FOR WHICH THE RIGGING SCREW IS DESIGNED. AS FOLLOWS.

RIGGING MEMBER	MAX SAFE LOAD - W.R.	RIGG. SCRW TEST LOAD
F & MAIN SHROUDS, MAINSTAY & MAINBACKSTAY DESIGNED FOR 1"D H.G.P.S. GALV. 1"D.C.R.S. SUBSTITUTED AT MAINMAST ON ACCOUNT OF FUMES SEE REF. 29.	18.425#	27.638#
TOPMAST STAYS 9/16"D.H.G.P.S.W.R. GALV. 6×19	5950#	8925#
YARD LIFT 1/2"D.H.G.P.S.W.R. GALV.	4.750#	7.125#
FORESTAYS DESIGNED FOR 1"D.H.G.P.S.W.R. GALV.	18.425#	27.638#
FORE BACKSTAYS DESIGNED FOR 7/8"D.H.G.P.S.W.R. GALV.	14.150#	21.225#

18. BOSNS CHAIR, EYES ON SHIPS SIDE FOR PAINTERS STAGES ORD. ON REFS. 44, & 45.
19. ELECTROLINE (FIEGE) ROPE END FITTINGS SHALL BE USED IN PLACE OF SMELTER TYPE SOCKETS OR SPLICES WHEREVER POSSIBLE, WHICH SHALL BE INSTALLED IN ACCORDANCE WITH MFRS. INSTRUCTIONS. SEE ALSO DETAIL ON REF. 14
20. HEIGHTS TO DECKS & PLATFORMS GIVEN ABOVE ℄ ARE TO THE MOLDED LINE OF SUCH DECK OR PLATFORM.
21. ALL RADARS SHALL BE FURNISHED BY GOVT.

REFERENCES

No.	TITLE	B.S. Co. No	S. of S. No.	BUR. OF SHIPS No
1	GENERAL SPECIFICATIONS - Y-5-1, Y-6-1 & Y-13-1, 2 & 3.	–	–	–
2	DETAIL SPEC. PI. PAGE 174 & 35; Y5 PAGE 453, 4 & 5; Y13 PAGE 462 & 3	–	–	–
3	FOREMAST ASSY.	94211-9	4363	410701
4	" DETAILS - SHEET - 1.	94211-12	4400	410741
5	" DETAILS SHEET - 2	94211-13	4432	410772
6	MAINMAST ASSY.	95211-11	CA 69-S1702-176096	
7	" DETAILS	95211-15	5175	411494
8	DETAILS OF RIGGING SHEET - 3	94212-4	4495	410841
9	JACK STAFF	94211-6	4516	410806
10	ANCHOR LIGHT STAFF.	94211-29	4908	411294
11	MIDDLE LEVEL & AFT MAIN BATT CONT. STATION	94127-43	4227	410572
12	FORE. & MAINMAST - SKETCH FOR ORDERING	94211-610	3850	410005
13	SIGNAL YARD SKETCH FOR ORDERING	94211-672	4224	410568
14	DETAILS OF RIGGING SHEET - 1	95212-2	CA 69-S1801-176035	
15	" " SHEET - 2	94212-3	4514	410864
16	MAIN DECK COMP. & ACCESS	9511-7		523399
17	MAIN DECK COMP. & ACCESS	9611-7		523449
18	RIGGING SCREW FOR 7/8"D & 1"D. W.R.	94212-7	4121	410468
19	BLOCK LIST	94212-8	4453	410795
20	ROPE LIST - WIRE	94212-9	4454	410794
21	ROPE LIST - MANILA	94212-10	4455	410796
22	GEN. ARRGT. & DETAILS OF ANTENNAE (ELECT.) - SHEET - 1	9420-511	–	CA68-S6700-11
23	" " " " " " 2	9420-511	–	CA68-S6700-11
24	BRIDGES COMP. & ACCESS	9511-8		523400
25	BRIDGES COMP. & ACCESS	9611-8		523450
26	SIGNAL FLAG BOARD - FOREMAST	94232-242	4557	410907
27	SIGNAL FLAG BOARD - MAINMAST	94232-106	4213	410557
28	LOCATION OF RUNNING & SIGNAL LIGHTS	9420-129	–	CA68-S6405-1
29	CONF. LETTER FROM BU. OF S. TO S. OF S. QUINCY MASS AUG. 14-41. C-CA68-75/S17(3631)			
30	CONF. BETH LETTER TO. S OF S QUINCY MASS 10/20/41-1494/S71(1395) UA. ENCLOSING COPY OF NOTES TAKEN AT BU. 10/7/41			
31	RELOC. OF 40M. GUNS & DIRECTOR INTERCHANGE OF M.B. DIR. & 5"A.A. DIRECTORS	—	C-4073	016382
32	AIRPLANE CRANE - ARRGT.	94571-2	3944	410209
33				
34	WARPING ARRGT. - AFT.	94222-6	3433	408681
35	WARPING ARRGT. - FORWARD	94222-7	3426	408674
36	BOW CHOCK	94222-1	3477	408725
37	STERN CHOCK	94222-2	3535	408783
38	RAIL STANCHIONS - MAIN DECK	94231-1	4493	410839
39	RAIL STANCHIONS - BRIDGES	94231-2	4547	410898
40	RAIL STANCHIONS - TYPES	94231-3	4494	410840
41	ARRGT OF ALUM. SIGNAL YARD	96211-27	411216	4851
43	METHOD OF INSTALLING ALUMINUM ALLOYS	7911-53-1	3496	408760
44	BOSNS CHAIR	N-141-A	3375	188282
45	EYES ON SHIPS SIDE FOR PAINTERS STAGE	94232-166	3815	408983
47	ANTENNAE TRUNKS	94127-60	4676	411017
48	OUTSIDE PLATING STEM TO FR. 65	94123-1	3195	408441
49	MAIN DK PLATING FRS. 65 TO 115	94124-16	3487	408735
50	1st. LEVEL PLATING FRS. 65 TO 115	94127-40	4025	410285
51	FORD. COMM. PLAT & FLAG BRIDGE PL'G. & SHIELDS AT FL. BRIDGE LEVEL	94127-26	4247	410589
52	PLATFORMS - FORD. NAV. BRIDGE & ABV. SHIELDS ON AIR DEFENSE STAT.	94127-28-1	4294-A	410817
53	SIGNALMANS PLATFORM ON FLAG BRIDGE	94232-240	4567	410917
54	AFT AIR DEFENSE STATION PLATING ETC.	94127-45	4240	410582
55	40MM GUN FOUNDS	94512-3	4183	410529

- CONT. ABOVE -

No	PANEL	ALTERATION	BY	CONT. DATE	CONT. APPD	GOVT. DATE	GOVT. APPD
I	5'10' 1. 3' 2.	ARRGT. AT FORE & MAINMAST FOR CA70-71 ADDED. RES. #1 ADDED	UA 141	6 Aug 43		8/11/43	
II	10' 1. 3' 2. 3' 3. 3, 12 4.	ARRGT. OF ANTENNAE AT MAINMAST REVISED TO SUIT FORCED DRAFT INTAKE REF. 70 CA-70 & 71 ONLY. REF. # 70 ADDED. RES. #1 CANCELLED. NOTES ADDED TO SECTIONS AT FRAMES 78 & 104.	UA 141	14 SEP 43		9/21/43	
III	1'3' 1. 5'10' 12'	SHIP NO. CA-71 CANCELLED FROM THIS DRAWING & SHOWN ON NEW DRAWING NO. 97212-1	22 222	13 NOV 47		12/19/47	

CALCULATED WEIGHTS

GROUP	DESCRIPTION	CONT. CALC.	BUREAU EST.	DIFFERENCE

HULL NO	SHIP NO	NAME	CONTRACTOR
~~1497~~	~~CA-71~~		BETHLEHEM STEEL CO. SHIPBUILDING DIVISION FORE RIVER YARD QUINCY, MASS.
1496	CA-70		
1495	CA-69		

CORRECTED PLAN

BETHLEHEM STEEL CO.
SHIPBUILDING DIVISION
FORE RIVER YARD QUINCY, MASS
HULL DEPARTMENT

SCALE 1/8" = 1'-0" DATE 6-JULY-43.
DRAWN UA-130 EXAMINED UA-14
TRACED ✓ APPROVED
CHECKED UA-90 APPROVED UB.

JOB No 1494-21 PLAN No 95212-1

CA68-75 | S1-3 (71605 46/48)
CA122 Class

APPROVED DATE July 16, 1943
LETTER NO.
SUPERVISOR OF SHIPBUILDING U.S.N. QUINCY MASS.
BY DIRECTION

GENERAL ARRANGEMENT OF RIGGING
CORRECTED PLAN

BUREAU OF SHIPS PLAN NUMBER: CA69 S1801 176157 ALT. NO III

CA69-70

8" GUN - 13000 T - CRUISERS

CA 176157

OFFICE OF SUPERVISOR OF SHIPBUILDING FOR U.S. NAVY BETHLEHEM STEEL COMPANY (SHIPBUILDING DIV.) QUINCY, MASS.

RECEIVED	RETURNED
JUL 22 1943	JUL 31 1943
AUG 7 1943	AUG 10 1943
SEP 14 1943	SEP 2? 1943
OCT 10 1947	DEC 19 1947

LINDQUIST

ALBD GROUP 15 GROUP 14